REMARKS/ARGUMENTS

Claims 1 and 2 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Senf in view of Cline. It is respectfully submitted that claims 1 as presented patentably distinguish over the rejection of record.

The device of Senf does not disclose reciprocating piston pumps as claimed but rather discloses gear pumps (col. 3, lines 50-62) and then goes on to discuss the issues associated with such pumps in attempting to proportion materials of varying viscosity (col. 3, line 63 - col. 4, line 6). Accordingly, such gear pumps (which are not reciprocating piston pumps as claimed), see http://en.wikipedia.org/wiki/Gear_pump for a general discussion are not true positive displacement pumps of the particular type claimed and which provide the enhanced performance at relatively lower cost and complexity.

Cline does not make up for the lack of claimed limitations. Cline shows a complicated system but does not show one which monitors the higher of the two pressures (Cline compares one or both pressures to a setpoint but does not mention comparing the higher of the two) and which compares it to a single set point as claimed.

Similarly, one would not remove gear pumps from Senf given that the object of Senf is to compensate for the problems of gear pumps.

Claims 1 and 2 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Hayes in view of Flemming and Cline. It is respectfully submitted that claims 1 and 2 as submitted patentably distinguish over the rejection of record. It is further submitted that the need to combine three references to provide the claimed limitations presents a prima facie case of unobviousness.

Hayes discloses a system for dispensing material to be diluted, typically by water (col. 1, lines

17-26). Such materials are not considered plural component materials as would normally be

understood by one of ordinary skill in the art. As commonly understood, plural component

materials have 2 or more components that chemically react with one another. Dilution is not a

chemical reaction. Further rather than as claimed, Hayes connects the outlet 39 of the

concentrate pump 41 to the inlet 29 of the other pump 23. Thus there is more than one pump

between the concentrate and the work station, which in turn is not disclosed as an application

device such as a spray gun.

Flemming discloses a dispensing system having multiple pumps for <u>alternatively</u> dispensing

various colored materials (col. 5, lines 46-54). Only one color is dispensed at a time and the

others are recirculated back to the reservoirs. Because this is metered dispensing using a stepper

motor, there is no pressure control nor any need for such. Colorant dispensing is typically a low

pressure operation.

Cline shows a complicated system but does not show one which monitors the higher of the two

pressures (Cline compares one or both pressures to a setpoint but does not mention comparing

the higher of the two) and which compares it to a single set point as claimed.

Overall, while there might arguably be a reason to combine any two references, there is no

reason one skilled in the art might combine all three references applied in the Office Action. The

only suggestion to do so comes from Applicants' disclosure. The use of positive displacement

reciprocating piston pumps as claimed allows the system to stall against pressure and not have to

worry about pressure bleeding off through gear pumps through slippage.

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In contrast, the claimed invention dispenses two materials simultaneously at elevated pressures

and compares the pressures of the two streams to a setpoint (or to a predetermined deviation

from a setpoint as set forth in claim 2). One skilled in the art needs some reason to combine the

three references and there is no reason mentioned why one would do so other than Applicants'

disclosure. Other than broadly addressing some sort of fluid dispensing, there are essentially no

common problems addressed by the disparate art and no reason why one would combine them.

Applicants have produced an electric plural component proportioner for the mixing of fast

setting materials which require precise control of both ratio and pressure using many commonly

available parts traditionally produced in volume for use in airless paint sprayers resulting in a

unit which is relatively inexpensive and yet which performs at a level above its price point. The

assignee of the instant invention has sold over \$40 million of proportioners constructed

according to the claimed invention, clear evidence of commercial success and lack of

obviousness.

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

Respectfully submitted,

/dbf/

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